

Critical Readiness Review

EHS

Water Quality & Microbiology

Microbiology

➤ Crew Training

Surface Sampling & Air Sampling: Creamer completed

Caldwell
Wheelock
Walker

➤ Hardware Delivery

19A: 14 Surface Sampler Packets + 1 incubation Bag

8 Petri Dish Packets

ULF4: 14 Surface Sampler Packets + 1 incubation Bag

8 Petri Dish Packets

➤ Return Items

19A: Surface Sampling slides

Petri Dishes

Water samples

H₂O

Crew Training

EHS Water Kit: Creamer completed

Noguchi

Caldwell

Wheelock

Walker

TOCA: Creamer completed

Noguchi

Caldwell

Wheelock

Walker

PWD: Creamer - completed

Noguchi

Caldwell

Wheelock

Walker

Hardware Delivery

19A: EHS Water Kit - must be unpacked into 0.5 CTB S/N 1063 EHS Water Kit

EHS Water Kit

Overview

This kit includes contents for water collection from the Russian and US Water ports, bacteria enumeration, and coliform detection.

Items to Return

Post-flight Analysis Packet
Portable Water Sampler SRV-K
Portable Water Sampler SVO-ZV
Microbial Capture Device

Return Items

Shuttles: Water samples, Adapters, MCDs

Soyuz: Three 500 mL samples

Procedures:

- Water Note - submitted 1 week ahead
- Portable Water Dispenser - Water Sample Collection - submitted as one time use only for each activity

TOCA

Hardware Delivery:

19A: TOCA Water Sample Hose

TOCA Power Cable

ULF6: PFU2 TOCA (installation during ULF6 stage)

What will be consisted as ACO is still in discussion.

USB Drive Assembly (2)

Compact Flash Card Assembly (1)

Fluid Fitting Guard (1)

TOCA Mounting Fixture (1) – replace one on the PFU1

Oxidizer (2)

Filter Assembly, 47MM (contingencies) (2)

Check Valve Assembly, Acidic Buffer Inlet (contingencies) (1)

In-flight Maintenance Change:

Waste Water Bag Changeout – once/6 analysis (ground needs to keep track of # of analysis and schedule this activity after the 6th analysis or before the 7th analysis)

Procedures:

TOCA – Water Sample Analysis From TOCA Sample Analysis Bag procedure will be uplinked as one time only each time.

Procedures will be updated as some screen shots may change for PFU2.